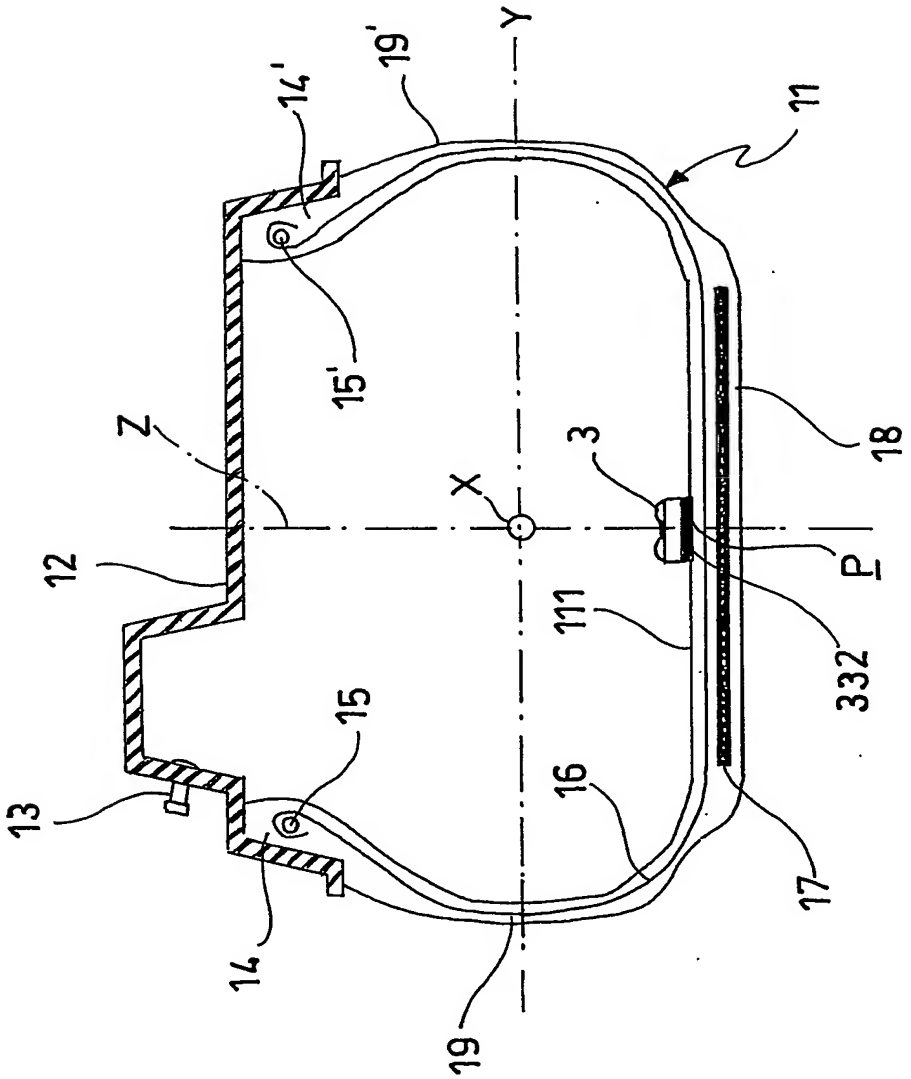


FIG.1

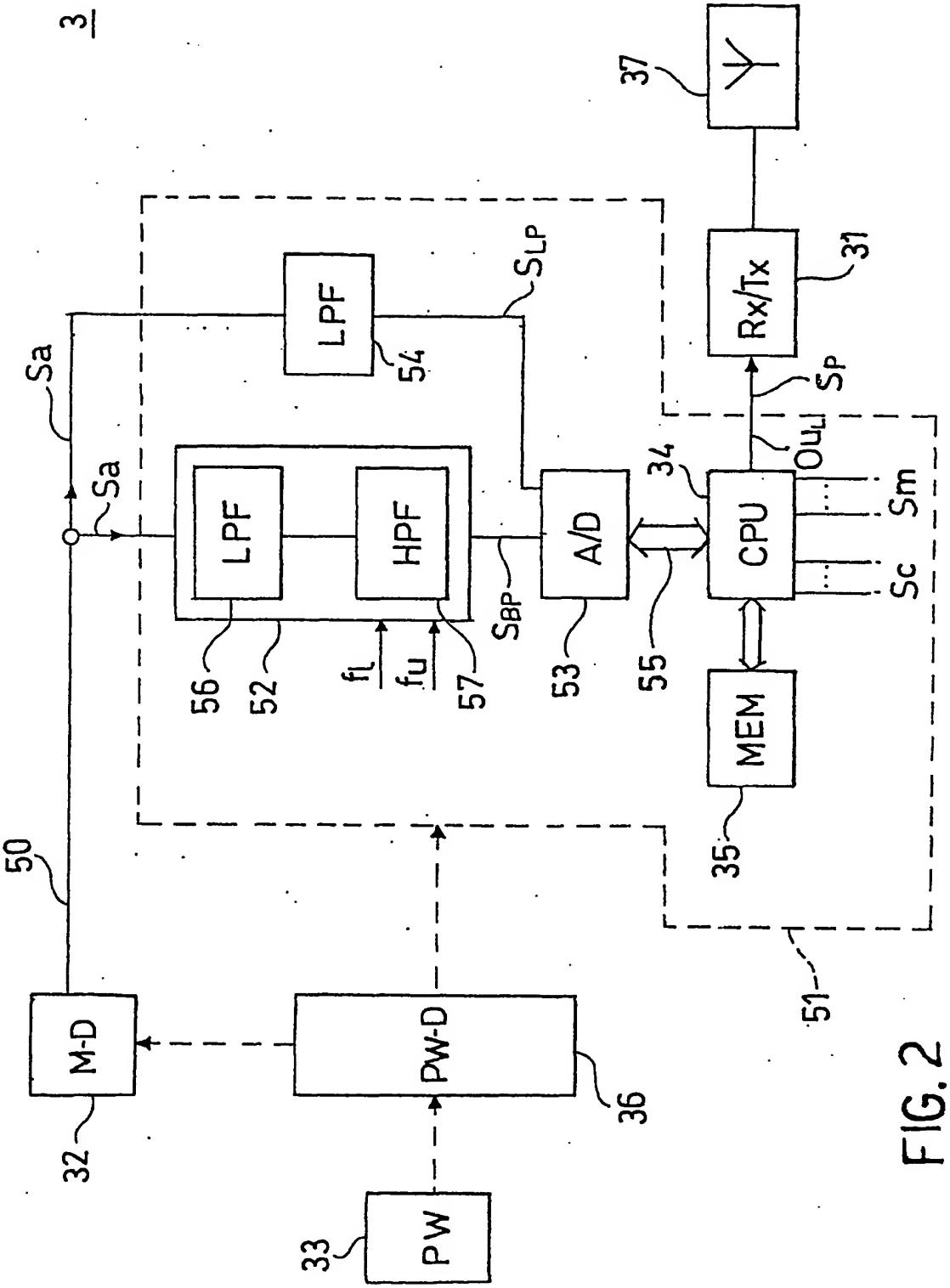

3
37
Rx/Tx
31
LPF
54
SLP
Sa
Sa
LPF
HPF
56
52
fl
fu
57
SBP
A/D
53
55
34
CPU
OuLI
SP
Sm
Sc
MEM
35
50
M-D
32
PW-D
36
PW
33
51

FIG. 2

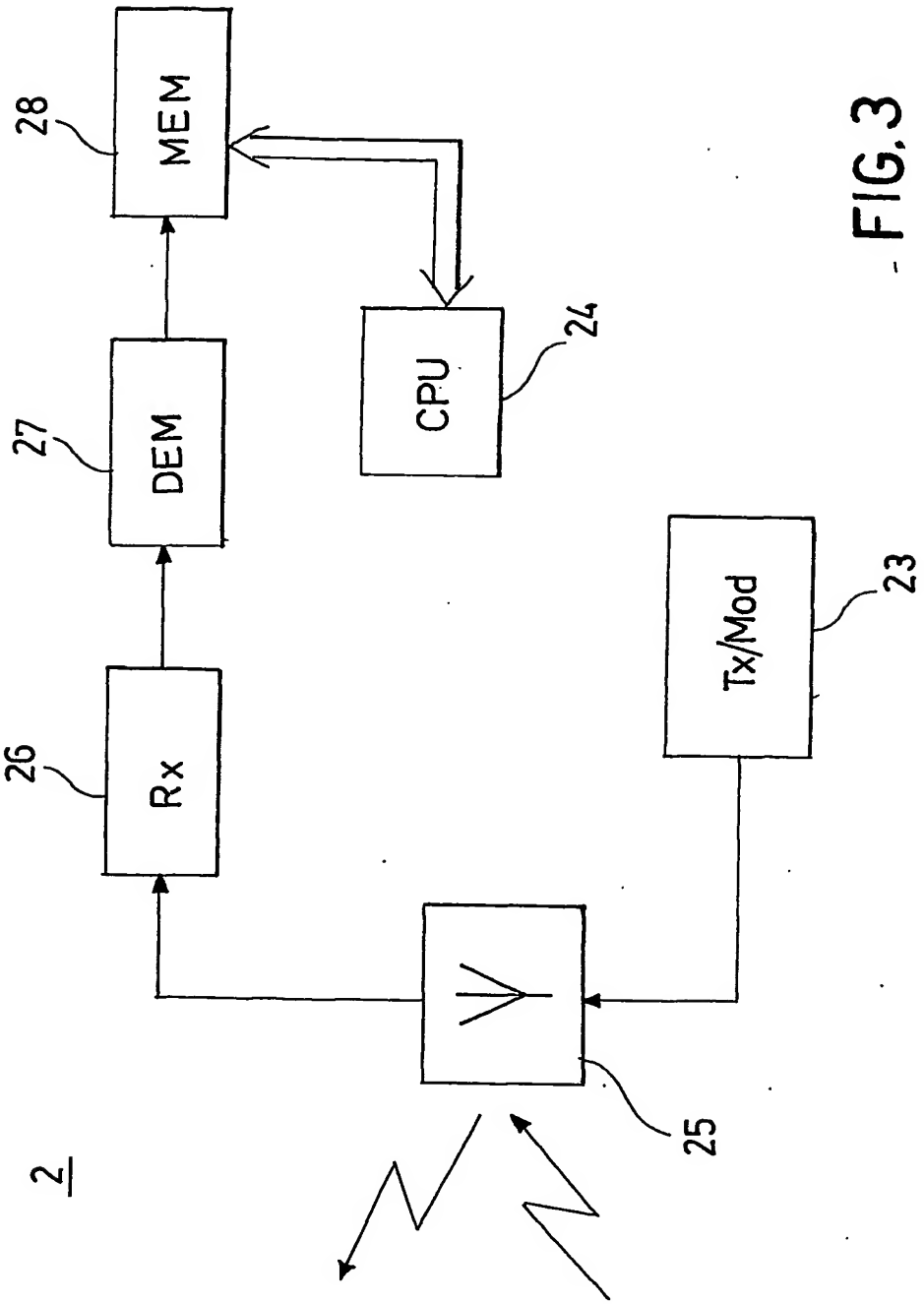


FIG.3

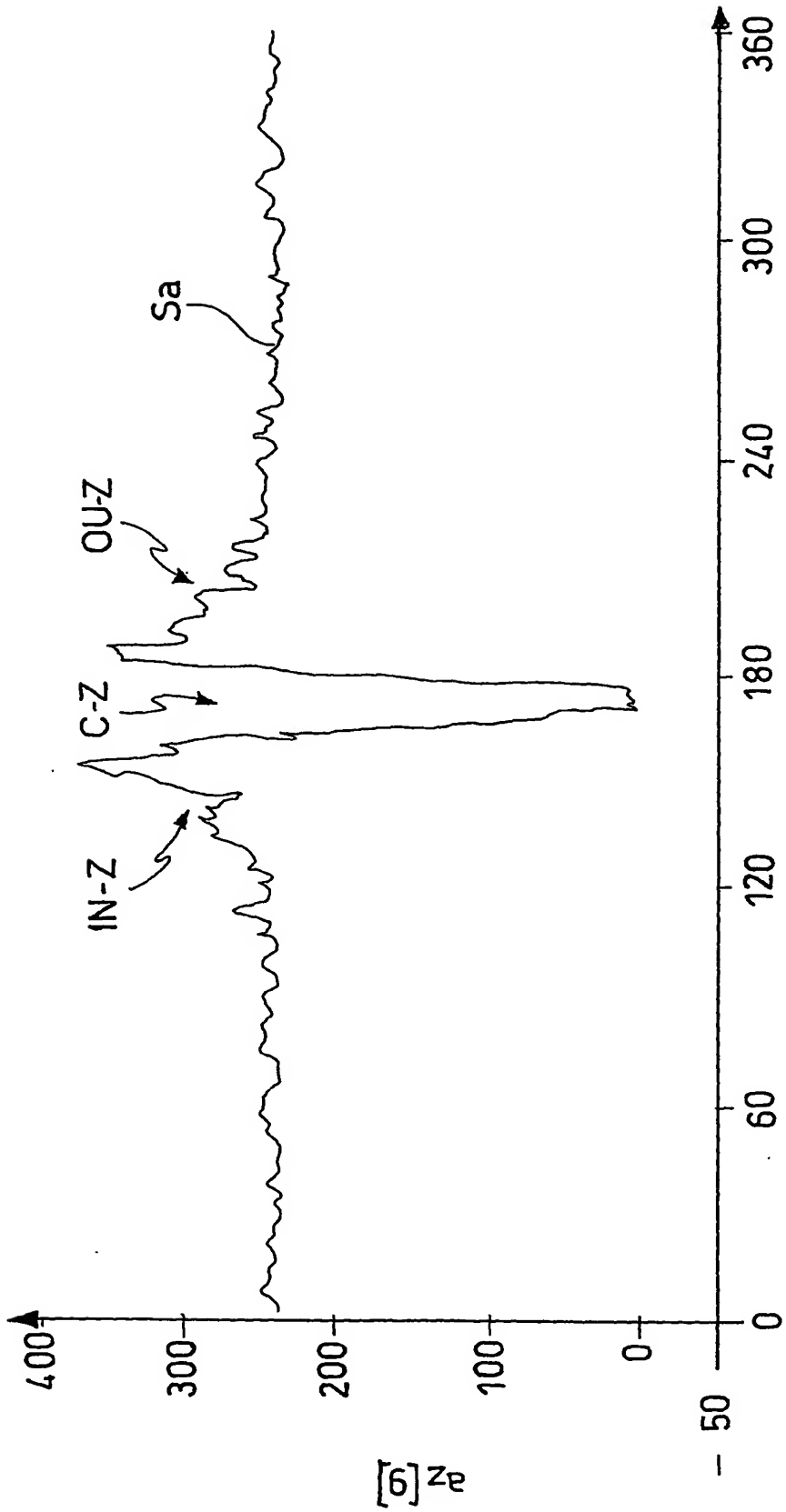


FIG. 4

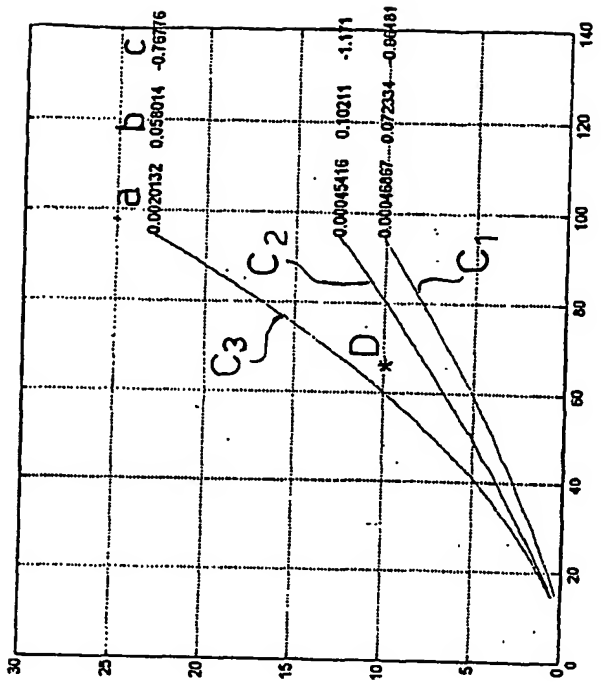
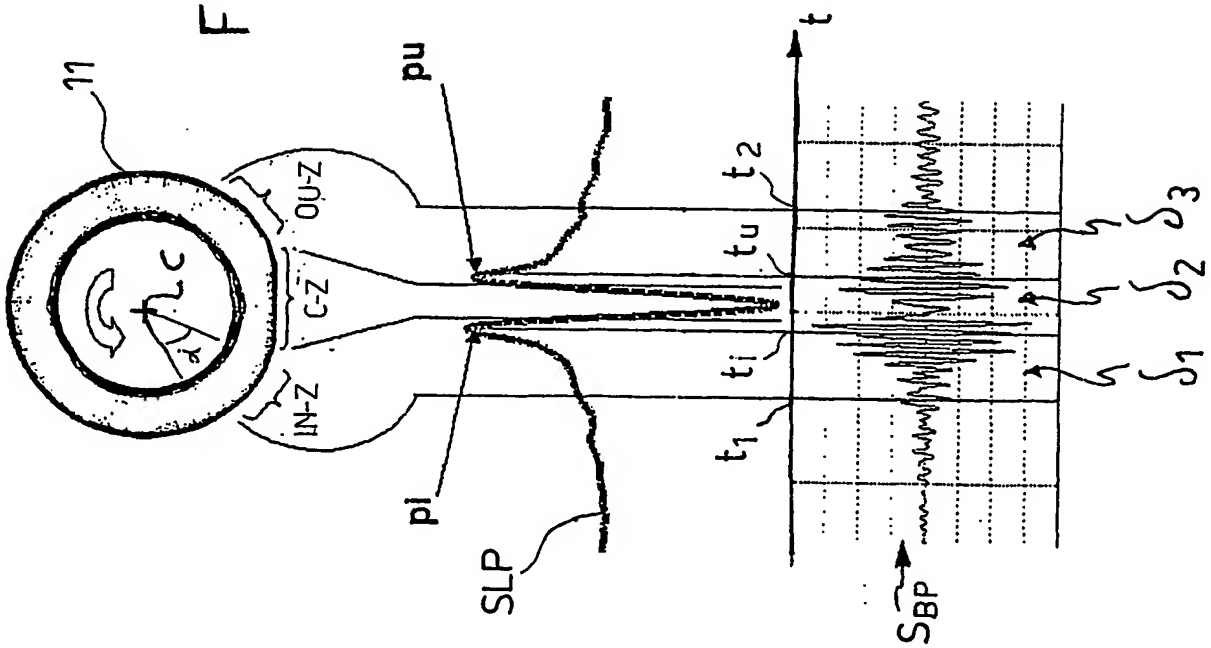

a
b
c
0.0020132
0.058014
-0.76776
0.00045416
0.10211
-1.171
-0.0004567
-0.072334
-0.86481
C1
C2
C3
D
0
20
40
60
80
100
120
140
0
5
10
15
20
25
30
ωP
$\overline{OL}_j(K)$

FIG.6

FIG.5


11
OU-Z
C-Z
IN-Z
pu
pi
SLP
t
t2
tu
ti
t1
S_{BP}
δ_1
δ_2
δ_3

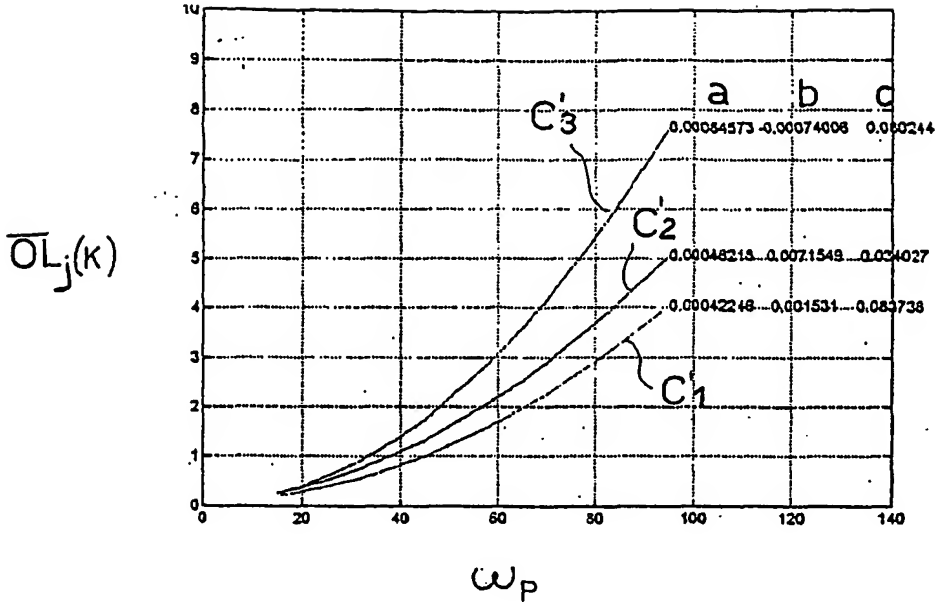

$\overline{OL}_j(K)$
a b c
C'_3
C'_2
C'_1
0.00084573 0.00074006 0.000244
0.00048213 0.0071548 0.034027
0.00042248 0.001531 0.083738
ω_P

FIG. 7

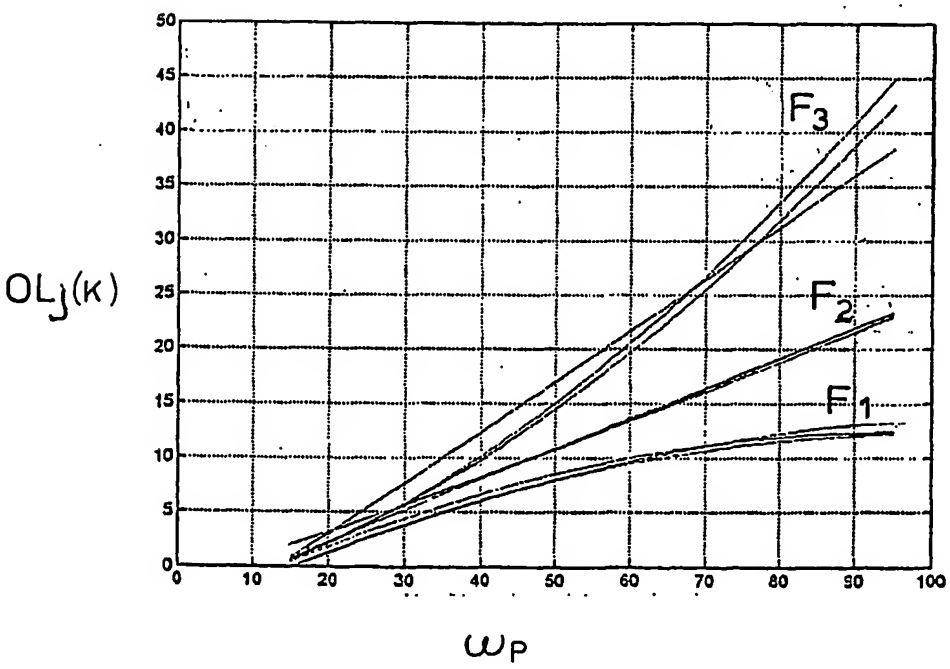

$OL_j(K)$
F_3
F_2
F_1
ω_P

FIG.8